ABSTRACT OF THE DISCLOSURE

A mask pattern includes a main pattern to be transferred through exposure and an auxiliary pattern that diffracts exposing light and is not transferred through the exposure. The main pattern is made from a shielding portion, a phase shifter or a combination of a semi-shielding portion or a shielding portion and a phase shifter. The auxiliary pattern is made from a shielding portion or a semi-shielding portion. The auxiliary pattern is disposed in a position away from the main pattern by a distance $M \times (\mathcal{N}(2 \times \sin \phi))$ or $M \times ((\mathcal{N}(2 \times \sin \phi)) + (\mathcal{N}(NA + \sin \phi)))$, wherein λ indicates a wavelength of the exposing light, M and NA indicate magnification and numerical aperture of a reduction projection optical system of an aligner and ϕ indicates an oblique incident angle.

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